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TECHSPEC<sup>®</sup> 25.0mm Dia. x -150 FL, UV-AR Coated, UV Plano-Concave Lens



UV Fused Silica Plano-Concave (PCV) Lenses



Stock **#71-105 1 In Stock**

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-

1

+

S\$229<sup>00</sup>

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| Volume Pricing |                               |
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| Qty 1-5        | <b>S\$229.60</b> each         |
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General

Plano-Concave Lens

Type:

Max. Flat Annulus is 0.3mm

Note:

| Physical & Mechanical Properties                                             |                                             |
|------------------------------------------------------------------------------|---------------------------------------------|
| 25.00 +0.0/-0.025                                                            | Diameter (mm):                              |
| 2.50 ±0.10                                                                   | Center Thickness CT (mm):                   |
| <1                                                                           | Centering (arcmin):                         |
| 24.00                                                                        | Clear Aperture CA (mm):                     |
| 3.59                                                                         | Edge Thickness ET (mm):                     |
| Optical Properties                                                           |                                             |
| -150.00                                                                      | Effective Focal Length EFL (mm):            |
| Fused Silica (Corning 7980)                                                  | Substrate: <input type="checkbox"/>         |
| 6.00                                                                         | f/#:                                        |
| 0.08                                                                         | Numerical Aperture NA:                      |
| UV-VIS (250-700nm)                                                           | Coating:                                    |
| 250 - 700                                                                    | Wavelength Range (nm):                      |
| -151.71                                                                      | Back Focal Length BFL (mm):                 |
| R <sub>abs</sub> ≤1.0% @ 350 - 450nm<br>R <sub>avg</sub> ≤1.5% @ 250 - 700nm | Coating Specification:                      |
| 587.6 ±1                                                                     | Focal Length Specification Wavelength (nm): |
| 68.76                                                                        | Radius R <sub>1</sub> (mm):                 |
| 40-20                                                                        | Surface Quality:                            |
| 1.5λ                                                                         | Power (P-V) @ 632.8nm:                      |
| λ/4                                                                          | Irregularity (P-V) @ 632.8nm:               |
| Regulatory Compliance                                                        |                                             |
| View                                                                         | Certificate of Conformance:                 |

## Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

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## Product Details

- Negative Focal Lengths for Beam Expansion or Light Projection Applications
- Wavelength Range of 200 - 2200nm
- Popular UV-AR Coating Option Available

TECHSPEC® UV Fused Silica Plano-Concave (PCV) Lenses are high performance UV optic elements, manufactured utilizing state of the art CNC equipment. Zygo's GPI-XP Interferometer is used to assure the surface accuracy and performance of these UV optics. UV Grade lenses are precision manufactured using research-grade synthetic fused silica. In addition to providing excellent transmission characteristics and higher operating temperatures, synthetic fused silica also exhibits an exceptional inclusion specification and chemical purity. TECHSPEC® UV Fused Silica Plano-Concave (PCV) Lenses are an ideal choice for many laser and imaging applications, particularly those involving ultraviolet wavelengths. A broadband anti-reflection coating is available for optimized throughput in the ultraviolet spectrum.

## Technical Information



UV FS Transmission Curve

| FUSED SILICA                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Uncoated Fused Silica<br/>Typical Transmission</b></p>                     | <p>Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                                                                                                                                                                                                |
| <p><b>Fused Silica with MgF<sub>2</sub> Coating<br/>Typical Transmission</b></p> | <p>Typical transmission of a 3mm thick fused silica window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{avg} \leq 1.75\% @ 400 - 700\text{nm}</math> (N-BK7)</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                   |
| <p><b>Fused Silica with UV-AR Coating<br/>Typical Transmission</b></p>           | <p>Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 1.0\% @ 250 - 425\text{nm}</math><br/> <math>R_{avg} \leq 0.75\% @ 250 - 425\text{nm}</math><br/> <math>R_{avg} \leq 0.5\% @ 370 - 420\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p> |

|                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p data-bbox="573 278 1083 385"><b>Fused Silica with UV-VIS Coating</b><br/><b>Typical Transmission</b></p>       | <p data-bbox="1329 439 1854 489">Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.</p> <p data-bbox="1329 501 1854 552">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1476 563 1707 614"><math>R_{abs} \leq 1.0\% \text{ @ } 350 - 450\text{nm}</math><math>R_{avg} \leq 1.5\% \text{ @ } 250 - 700\text{nm}</math></div> <p data-bbox="1329 649 1854 700">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 712 1707 736"><a href="#">Click Here to Download Data</a></p>                                                                        |
| <p data-bbox="573 958 1083 1065"><b>Fused Silica with VIS-EXT Coating</b><br/><b>Typical Transmission</b></p>   | <p data-bbox="1329 1142 1854 1193">Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.</p> <p data-bbox="1329 1205 1854 1255">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1476 1267 1707 1291"><math>R_{avg} \leq 0.5\% \text{ @ } 350 - 700\text{nm}</math></div> <p data-bbox="1329 1302 1854 1353">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 1365 1707 1389"><a href="#">Click Here to Download Data</a></p>                                                                                                                          |
| <p data-bbox="573 1638 1083 1745"><b>Fused Silica with VIS-NIR Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1329 1780 1854 1831">Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p data-bbox="1329 1843 1854 1893">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1465 1905 1717 1979"><math>R_{abs} \leq 0.25\% \text{ @ } 880\text{nm}</math><math>R_{avg} \leq 1.25\% \text{ @ } 400 - 870\text{nm}</math><math>R_{avg} \leq 1.25\% \text{ @ } 890 - 1000\text{nm}</math></div> <p data-bbox="1329 2015 1854 2065">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 2077 1707 2101"><a href="#">Click Here to Download Data</a></p> |
| <p data-bbox="573 2309 1083 2415"><b>Fused Silica with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>   | <p data-bbox="1329 2487 1854 2537">Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p data-bbox="1329 2549 1854 2599">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1476 2611 1707 2635"><math>R_{avg} \leq 0.4\% \text{ @ } 425 - 675\text{nm}</math></div> <p data-bbox="1329 2647 1854 2697">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1476 2709 1707 2733"><a href="#">Click Here to Download Data</a></p>                                                                                                                           |

